W.O. 00H-14-000013

CIVIL TECH LABS

45, 1st Cross, Srinivasa Colony, Mission Road, Bangalore – 560027
Ph: 080 - 4114 2367, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON AGGREGATES [AIV & Combined Flakiness & Elongation Index]

Wet Mix Macadam

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 13th A cross and other roads in Yelahanka New town in ward no 04
Agency of the Name	M/s Technical Manager (West)
Date of Testing	07/11/2014
Reference	MORTH Table 400-10

Sample No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	21.5	21.9	Satisfactory [As per MORTH for WMM, Maximum allowed AIV is 30 %]
2	22.3		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.8	26.0	Satisfactory [As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %]
Elongation Index	13.2		

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE 14

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT
TESTS ON BITUMEN SAMPLE

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting in 12th A cross and other roads in Yelahanka New town in ward no 04.
Name of Agency	M/s. Technocal Manager (West)
Date of Testing	10/11/2014

Paving Grade of Bitumen - 60-70 Grade

Sl.No.	Name of the Test	Test As Per IS Code	Result	Specification As Per IS 73 : 2006	Remarks
1	Specific Gravity @ 27°C	IS : 1202-1978	0.99	0.97 - 1.02	PASS
2	Flash Point °C	IS : 1209-1978	236	Minimum 220°C	PASS
3	Fire Point °C	IS : 1209-1978	250	Not Specified	PASS
4	Softening Point (R&B) °C	IS : 1205-1978	54	Minimum 45°C	PASS
5	Penetration @ 25 °C 100g 5 S, 0.1 mm	IS : 1203-1978	66	60-70	PASS
6	Ductility @ 25°C in Cm	IS : 1208-1978	72.5	Minimum 50 cm	PASS

Note:
1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE Li-4

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
#5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2367, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Bituminous Macadam (BM)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New town in ward no 04
Name of Agency	M/s. Technical Manager (West)
Date of Testing	10/11/2014
Reference	**MORTH Table 500-03**

Sl. No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	21.5	21.2	Satisfactory (As per MORTH for BM, Maximum allowed AIV is 30%)
2	20.9		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	11.4	24.3	Satisfactory (As per MORTH for BM, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	12.9		

Note:
1.The results relate only to the items tested.
2.Report shall not be reproduced except in full, without the written approval of the lab.
3.Any correction invalidates this report.
4.The results are based on the test conducted on samples supplied by the client.

AE Yn-4

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

WATER ABSORPTION TEST OF ROAD AGGREGATES

Bituminous Macadam (BM)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New town in ward no 04.
Name of Agency	M/s. Technocel Mettagen (West)
Date of Testing	10/11/2014

Method of Test	Sample No.	Water Absorption in %	Average Water Absorption in %	As per MORTH Table 500-03.	Remarks
IS : 2386 (Part 3)	1	0.82	0.82	2 % Maximum.	Satisfactory
	2	0.79			
	3	0.84			

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 7867, Email: civiltechlabs@gmail.com

TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Macadam (BM)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New town in ward no 04.
Name of Agency	M/s. Technical Manager (West)
Date of Testing	10/11/2014

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-03	Remarks
IS 6241:1971 (Reaffirmed 2003)	1	3.50	3.57	5 % Maximum	Satisfactory
	2	3.52			
	3	3.63			

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON AGGREGATES [AIV & Combined Flakiness & Elongation Index]

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New town in ward no 04.
Name of Agency	M/s. Technical Manager (West)
Date of Testing	28/11/2019
Reference	MORTH Table 500-17

Sl. No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	22.3	22.8	Satisfactory [As per MORTH for BC, Maximum allowed AIV is 24 %]
2	23.2		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.6	24.4	Satisfactory (As per MORTH for SDBC, Maximum allowed 'C-F&E' is 30 %]
Elongation Index	11.9		

Note:

1.The results relate only to the items tested.

2.Report shall not be reproduced except in full, without the written approval of the lab.

3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

WATER ABSORPTION TEST OF ROAD AGGREGATES

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New town in ward no 04.
Name of Agency	M/s. Technical Manager (West)
Date of Testing	28/11/2014

Method of Test	Sample No.	Water Absorption in %	Average Water Absorption in %	As per MORTH Table 500-17	Remarks
IS 2386 (Part 3)	1	0.72	0.82	2 % Maximum	Satisfactory
	2	0.86			
	3	0.89			

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE. LL-4

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2567, Email: civiltechlabs@gmail.com

TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BDA
Name of Work	Intimation to work order to start the work asphalting at 12th A cross and other roads in Yelahanka New town at ward no 04.
Name of Agency	M/s. Technical Manager (West)
Date of Testing	26/11/2014

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-17	Remarks
IS 6241-1971 (Reaffirmed 2003)	1	3.6	3.8	5 % Maximum	Satisfactory
	2	3.6			
	3	3.9			

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE D.A

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

Bitumen Content Determination on BC Mix-Grade 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of the Work	Intimation to work order to start the work asphalting to 12th A cross and other roads in Yelahanka New Town in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	28/11/2014

Specification : As Per MORTH (4th Revision) Table 500-18 Bitumen Content for BC/Grade-2 is 5 % TO 7 %

Sl.no	Description	Sample-1	Sample-2
1	Weight of mixture before test, g	1000	1000
2	Weight of mixture after test, g	944	943
3	Weight of bitumen extracted, g	56	57
4	Bitumen content in %	5.6	5.7
5	Average Bitumen content in %	5.65	
Remarks :	**Satisfactory**		

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE N-4

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE